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Autore	IGNAZI, Piero
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Nota di contenuto	Contents; Preface; Chapter 1. Quarks and Smuggled Postcards from Andrei Sakharov; Publicity to Help Sakharov and Refuseniks; The Harassment of Andrei Sakharov Despite His Scientific Achievements; Continuing Harassment of Andrei Sakharov; Appeals for Humane Treatment of Sakharov; Chapter 2. Andrei Sakharov and the Weizmann Institute; Sakharov's Contributions and Achievements; Chapter 3. The Weizmann Institute and the Scientific History of Sakharov's Work; Following up the Formula in the Postcard; Why are There Always Too Many Particles?; Elements and Compounds; How To Test The Quark Theory Updating the 1966 Mass Formula How Particles Behave Like Tiny Magnets; Chapter 4. How Scientists Study Nature-Pure and Applied Research; What is Scientific Research?; From Relativistic Quantum Theory to the Human Brain; Appendix; The Impact of Dirac's Positrons on My Own Career; Creative Questioning; Chapter 5. The Building Blocks of Matter-What is a Quark?; The Structure of Matter; How Accelerators are Used as Microscopes; Gaps in the Mendeleev Periodic Table; Why Particles Seem to be Made out of Quarks; Gaps in the Next

## Mendeleev Table; Excitement About New Particles

Why these New Particles were so Confusing-A Historical SurveyThe New Mendeleev Table including all Three Generations; Chapter 6. The Forces of Nature; Gravity and Electromagnetism; Forces and Energy in the Nucleus; The Nuclear Glue; Chapter 7. The Weak Force and the Discovery of the W Particle; Index

### Sommario/riassunto

In 1980, the Cold War was in full bloom. The Soviet father of the hydrogen bomb and Nobel Peace Laureate turned dissident physicist, Andrei Sakharov, had been exiled to Gorki by the Soviet authorities. Called "senile" and under heavy Soviet censorship, Sakharov had a hard time communicating his latest scientific results to readers outside of Gorki. Some smuggled results reached the author, Harry Lipkin, who then realized that he and Sakharov were both pioneers in a new revolution on our understanding the structure of matter. The particle physics community had resisted their revelation that the